

=> d his

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FILE 'REGISTRY' ENTERED AT 17:58:56 ON 30 MAY 2009

L1 STRUCTURE UPLOADED

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L3 26 S L1 FULL

=> s l3 and caplus/lc

66606269 CAPLUS/LC

L4 23 L3 AND CAPLUS/LC

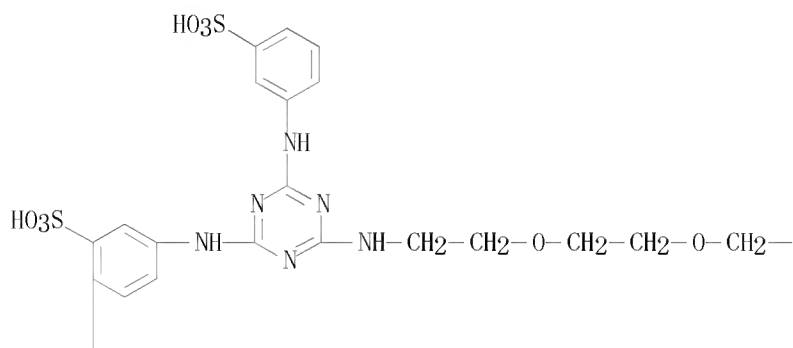
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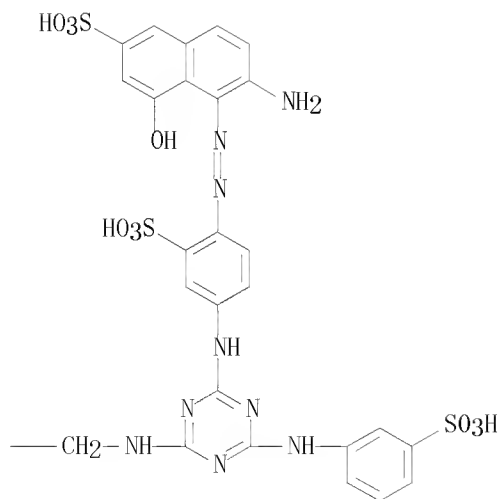
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L5 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 793657-65-5 REGISTRY  
 ED Entered STN: 07 Dec 2004  
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 2,1-ethanediyl)imino[6-[(3-sulfophenyl)amino]-1,3,5-triazine-4,2-  
 diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy- (9CI) (CA  
 INDEX NAME)  
 MF C59 H58 N18 O22 S6  
 CI IDS, COM  
 SR CA

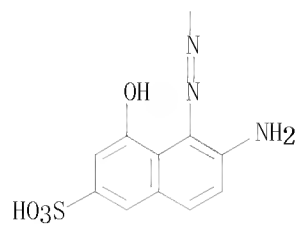
PAGE 1-A



PAGE 1-B



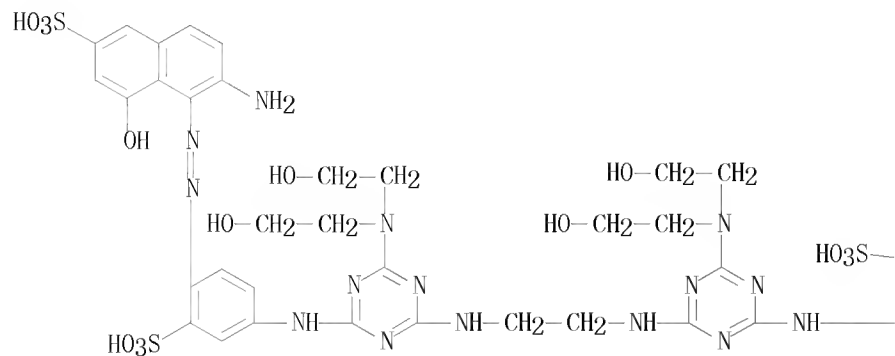
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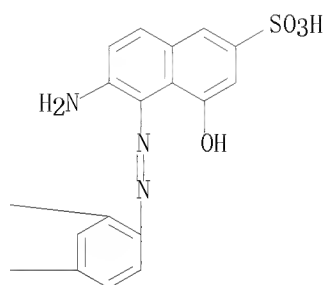
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L5 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 702635-23-2 REGISTRY  
ED Entered STN: 02 Jul 2004  
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MF C48 H52 N18 O18 S4  
CI COM  
SR CA

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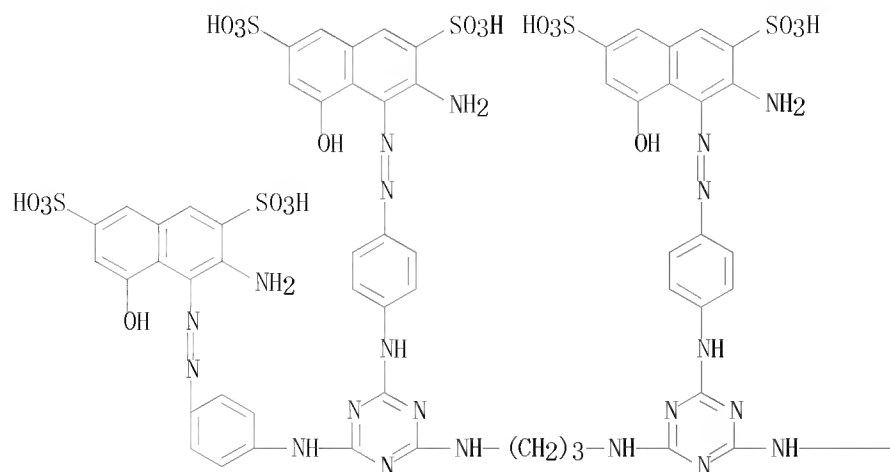
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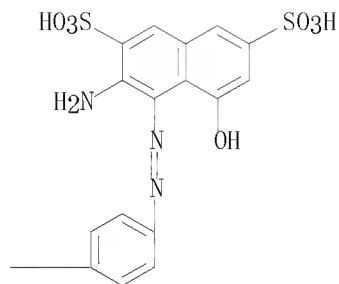
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L5 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 174571-96-1 REGISTRY  
ED Entered STN: 27 Mar 1996  
CN 2,7-Naphthalenedisulfonic acid, 4,4',4'',4'''-[1,3-propanediylbis[imino-  
1,3,5-triazine-6,2,4-triylbis(imino-4,1-phenyleneazo)]] tetrakis[3-amino-5-  
hydroxy- (9CI) (CA INDEX NAME)  
MF C73 H60 N24 O28 S8  
CI COM  
SR CA

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PAGE 1-B



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

=> fil capl  
FILE 'CAPLUS' ENTERED AT 18:01:30 ON 30 MAY 2009  
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FILE COVERS 1907 - 30 May 2009 VOL 150 ISS 23  
FILE LAST UPDATED: 29 May 2009 (20090529/ED)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009

Caplus now includes complete International Patent Classification (IPC) reclassification data for the third quarter of 2008.

CAS Information Use Policies apply and are available at:

<http://www.cas.org/legal/infopolicy.html>

This file contains CAS Registry Numbers for easy and accurate  
'FIONA' IS DEFAULT FORMAT FOR 'CAPLUS' FILE

=> s l3  
L6 6 L3  
  
=> d 1-6 bib abs hitstr

L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2005:283546 CAPLUS  
 DN 142:337769  
 TI Disazo dyes comprising [(4-[2-amino-3,6-disulfo-8-hydroxynaphth-1-ylazo]anilino)-1,3,5-triazinyl] moieties for textile printing  
 IN Gisler, Markus  
 PA Clariant International Ltd, Switz.  
 SO PCT Int. Appl., 25 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN. CNT 1

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	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
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	EP 1675912	A1	20060705	EP 2004-769467	20040923
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	BR 2004014624	A	20061107	BR 2004-14624	20040923
	JP 2007505965	T	20070315	JP 2006-526734	20040923
	ZA 2006001395	A	20070425	ZA 2006-1395	20060216
	MX 2006003018	A	20060623	MX 2006-3018	20060316
	KR 2006126451	A	20061207	KR 2006-705671	20060322
	IN 2006CN00981	A	20070615	IN 2006-CN981	20060322
	US 20080233289	A1	20080925	US 2006-573015	20060322
PRA1	EP 2003-21448	A	20030923		
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G1					

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

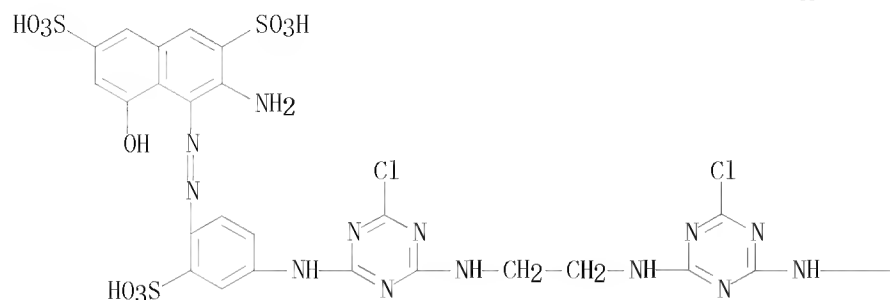
AB A dyestuff according to formula (1) or a salt thereof, wherein B and B' are each independently -SO<sub>3</sub>H, -COOH, substituted alkoxy, substituted alkyl, un-substituted alkoxy, un-substituted alkyl, or -PO<sub>3</sub>H<sub>2</sub>; Q is an organic aliphatic linking group, which is either a un-substituted or substituted alkyl group which is not interrupted by any hetero atom or a un-substituted or substituted alkyl ether group comprising one oxygen atom or is a un-substituted or substituted alkyl polyamine group comprising one or two or more nitrogen atoms; R, R', R'', and R''' are each independently H or un-substituted or substituted alkyl; are each independently a labile atom or group. The dyestuffs are useful for dyeing or printing nitrogen-containing or hydroxy-group-containing organic substrates (e.g., cotton fabrics) and for the production of (ink-jet) printing inks.

IT 847687-81-4P

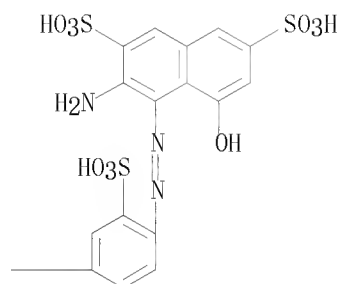
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 (bluish-red dye; production of disazo dyes containing [(4-[2-amino-3,6-disulfo-8-hydroxynaphth-1-ylazo]anilino)-1,3,5-triazinyl] moieties for textile printing)

RN 847687-81-4 CAPLUS  
 CN 2,7-Naphthalenedisulfonic acid, 4,4'-[1,2-ethanediylbis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[3-amino-5-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A



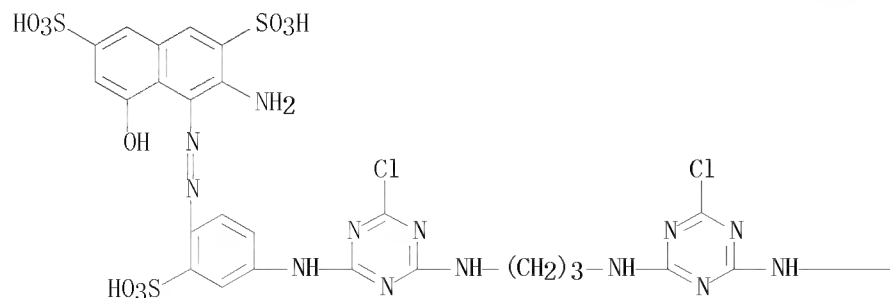
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 848421-16-9P 848421-18-1P 848421-20-5P  
 848421-22-7P 848421-24-9P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (production of disazo dyes containing [(4-[2-amino-3,6-disulfo-8-hydroxynaphth-1-ylazo]anilino)-1,3,5-triazinyl] moieties for textile printing)

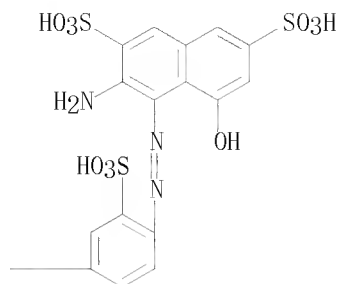
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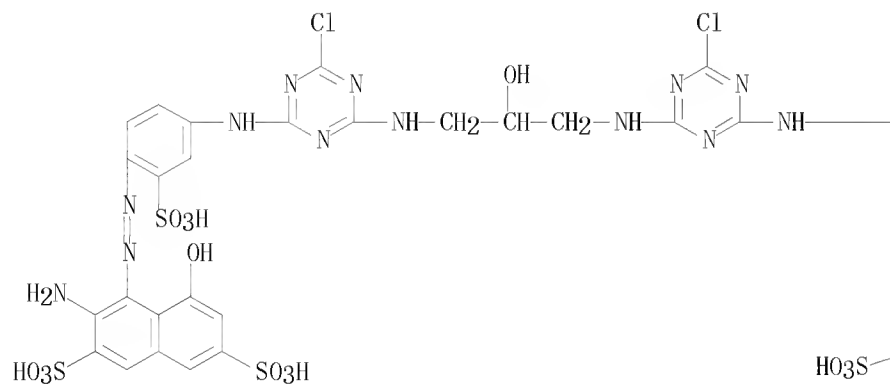
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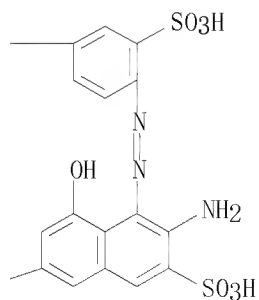
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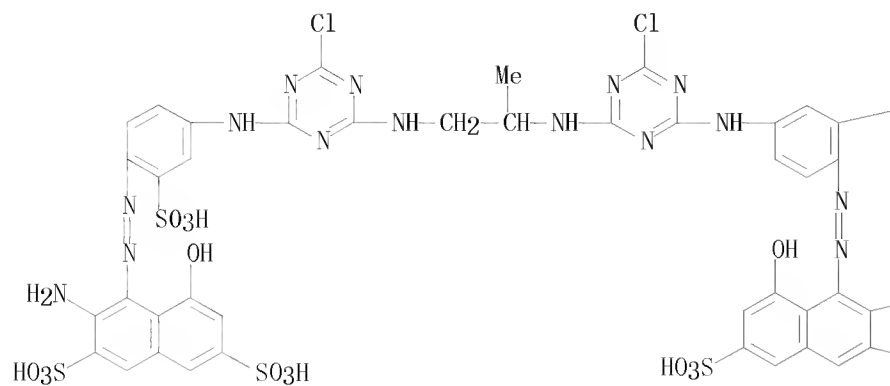
PAGE 1-B



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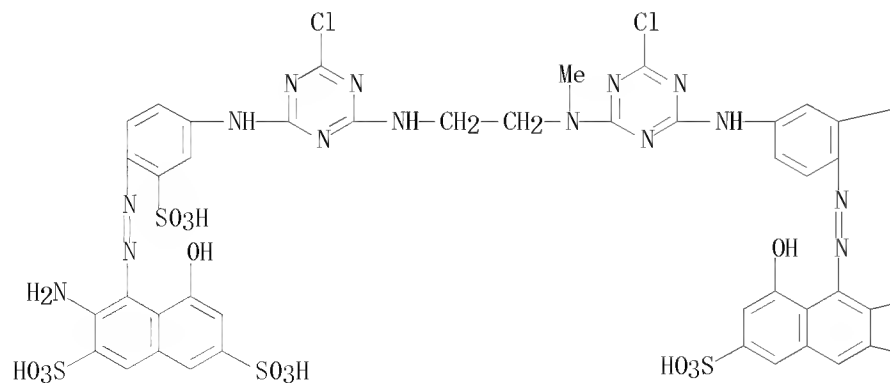
PAGE 1-B

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RN 848421-11-4 CAPLUS

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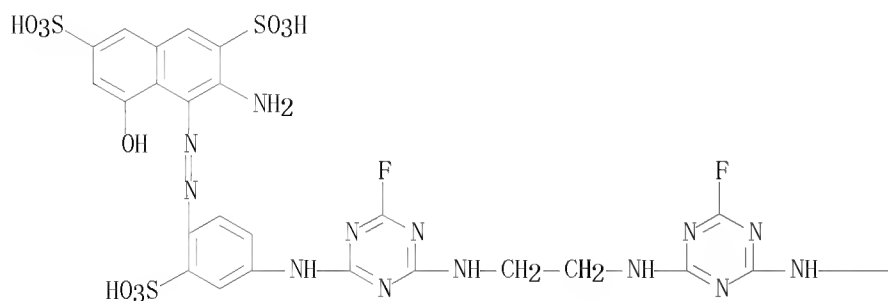
PAGE 1-B

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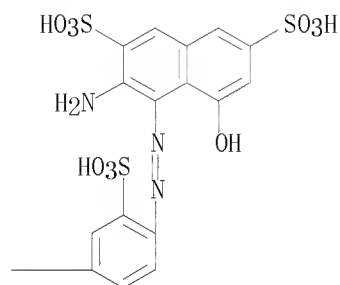
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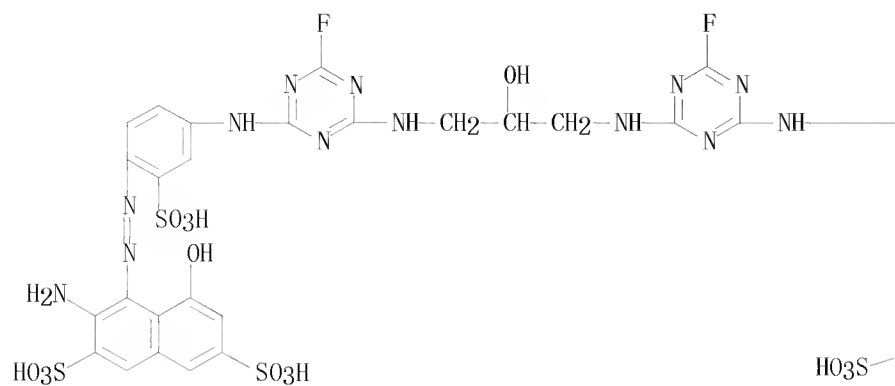
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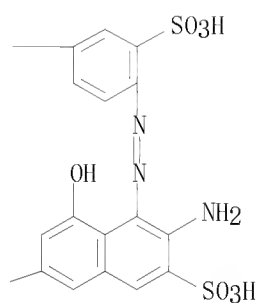
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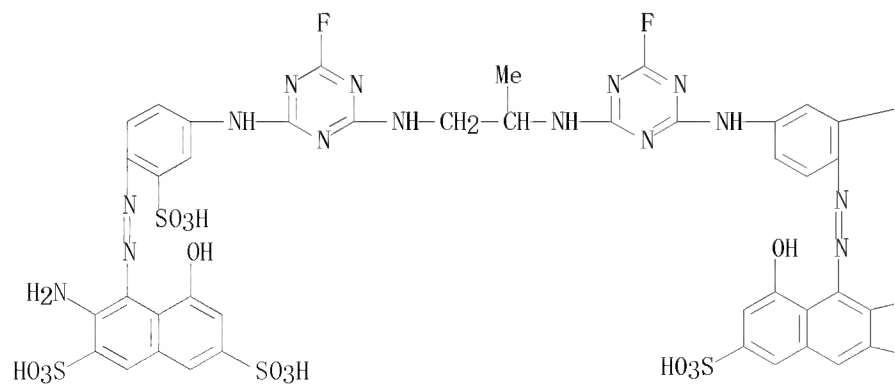
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CN 2,7-Naphthalenedisulfonic acid, 4,4'-[(1-methyl-1,2-ethanediyl)bis[imino(6-fluoro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[3-amino-5-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A



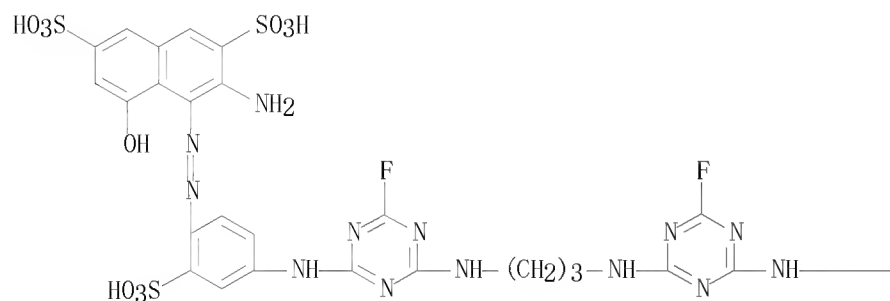
PAGE 1-B

$$\text{—SO}_3\text{H}$$
 $\text{NH}_2$  $\text{SO}_3\text{H}$ 

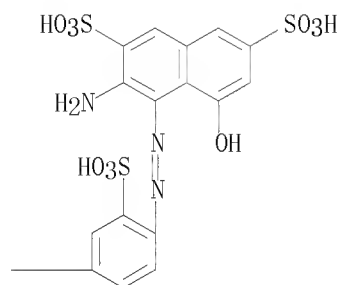
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PAGE 1-A



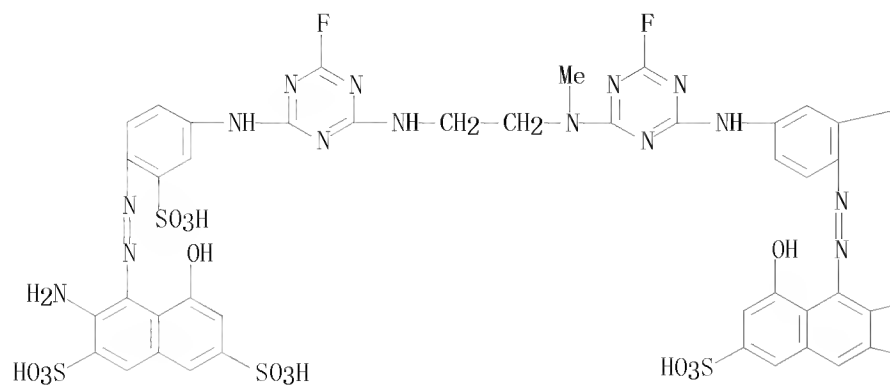
PAGE 1-B



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PAGE 1-A



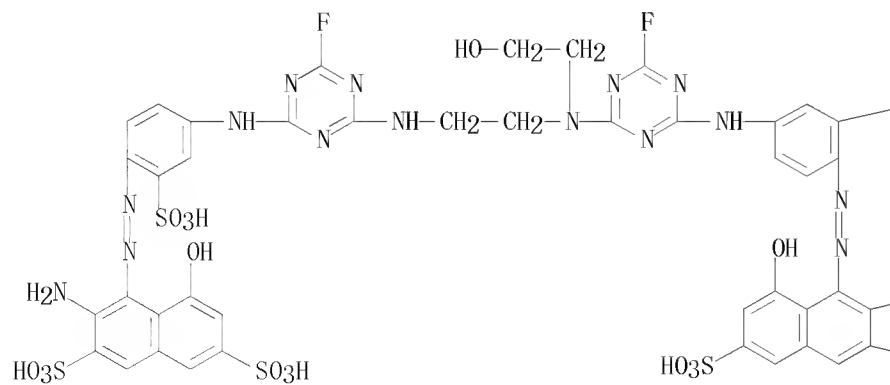
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—SO<sub>3</sub>H—NH<sub>2</sub>—SO<sub>3</sub>H

RN 848421-22-7 CAPLUS

CN 2,7-Naphthalenedisulfonic acid, 3-amino-4-[[4-[[4-[[2-[[4-[[4-(2-amino-8-hydroxy-3,6-disulfo-1-naphthalenyl)azo]-3-sulfophenyl]amino]-6-fluoro-1,3,5-triazin-2-yl]amino]ethyl](2-hydroxyethyl)amino]-6-fluoro-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-5-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A

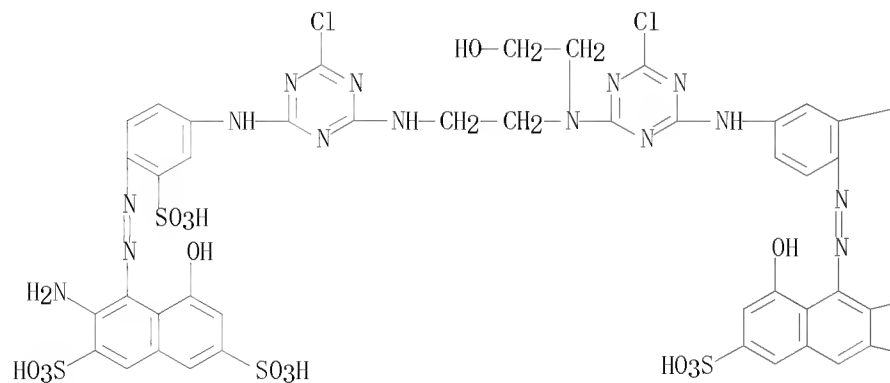


PAGE 1-B

— SO<sub>3</sub>H— NH<sub>2</sub>— SO<sub>3</sub>H

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PAGE 1-A



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— SO<sub>3</sub>H— NH<sub>2</sub>— SO<sub>3</sub>H

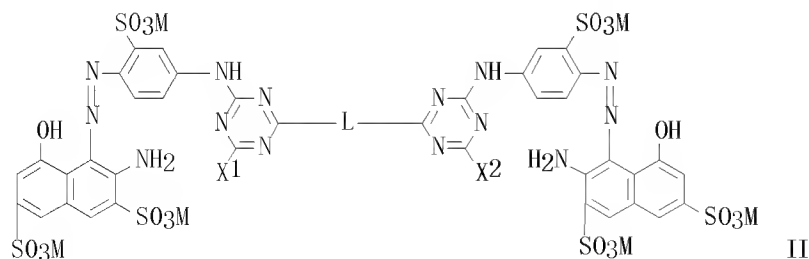
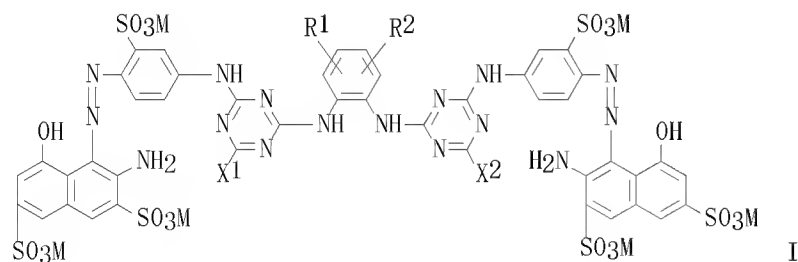
RE. CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD  
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L6 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2005:231529 CAPLUS  
 DN 142:299400  
 TI High light fastness reactive red dyes for dyeing and printing fibers  
 IN Russ, Werner; Ebenezer, Warren James; Lawrence, Anthony  
 PA Dystar Textilfarben G.m.b.H. & Co. Deutschland K.-G., Germany  
 SO Eur. Pat. Appl., 15 pp.  
 CODEN: EPXXDW

DT Patent  
 LA English

FAN. CNT 1

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	AT 355334	T	20060315	AT 2004-20967	20040903
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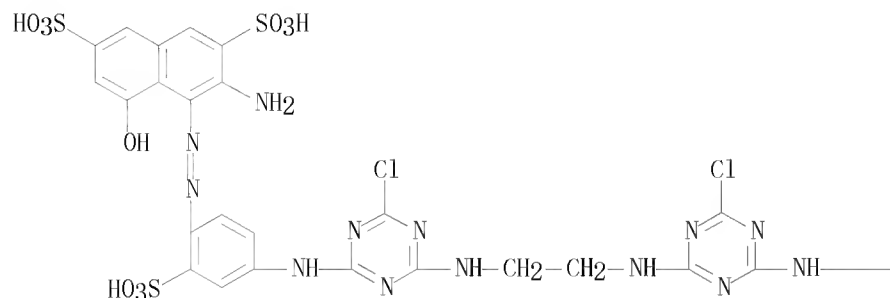


AB The dyes I (R1, R2 = H, C1-4 alkyl; X1, X2 = labile atom or group; and M = H, alkali metal, ammonium ion, alkaline earth metal) and a dye mixture of I and II (X3, X4 = labile atom or group; L = organic linking group; and M = H, alkali metal, ammonium ion or alkaline earth metal) are useful for dyeing and

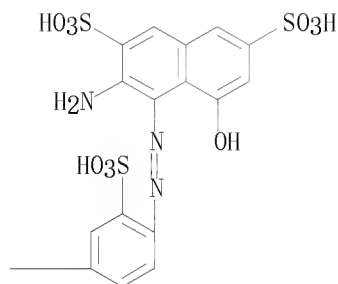


printing hydroxy- and/or carboxamido-containing fiber materials.  
 IT 847687-81-4P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (prepn lightfast reactive red dyes for dyeing and printing fibers)  
 RN 847687-81-4 CAPLUS  
 CN 2,7-Naphthalenedisulfonic acid, 4,4'-[1,2-ethanediylbis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[3-amino-5-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



RE. CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 2001:194869 CAPLUS  
 DN 134:239016  
 TI Azo dyes for anticlogging storage-stable jet-printing inks  
 IN Sano, Hideo; Yamada, Masahiro  
 PA Mitsubishi Chemical Corp., Japan  
 SO Jpn. Kokai Tokkyo Koho, 15 pp.  
 CODEN: JKXXAF

DT Patent  
 LA Japanese

FAN, CNT 1

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PRAI	JP 1999-254113		19990908		
OS	MARPAT 134:239016				
GI					

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The dyes, suitable for inks giving printed images with bright magenta color, high resistance to light and water, etc., have free acid structure of I [R1, R2 = H, (un)substituted C1-6 alkyl; R3-6 = H, (un)substituted C1-6 alkyl, aryl, C2-7 acyl; A, B = amine residue; X1, X2 = NR7R8, OR9, SR10; R7-10 = H, (un)substituted C1-8 alkyl, C2-6 alkenyl, aryl, aralkyl, cycloalkyl, N-containing heterocyclic group; R7 and R8 may be bonded to form a 5- or 6-membered ring with N; Y = divalent group]. Thus, an ink containing II, diethylene glycol, diethylene glycol monobutyl ether, and water was prepared and used in jet printing to give printed paper showing high bleeding resistance in water.

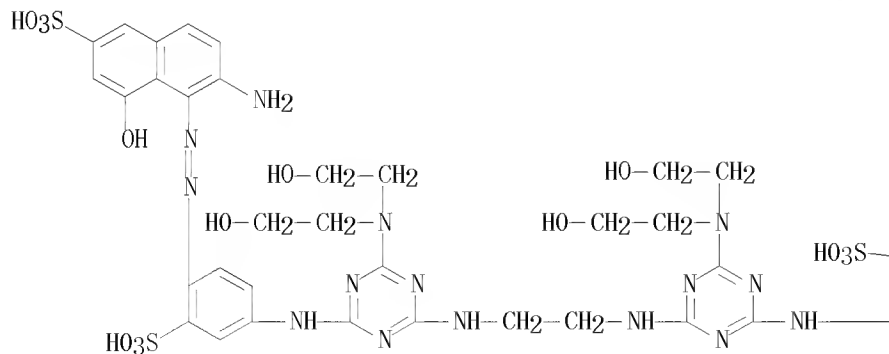
IT 329919-16-6P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (azo dyes for anticlogging storage-stable jet-printing inks)

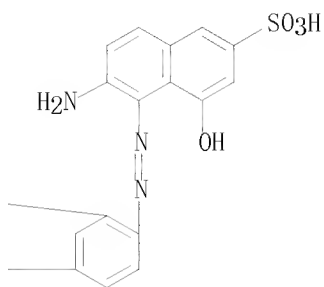
RN 329919-16-6 CAPLUS

CN 2-Naphthalenesulfonic acid, 5,5'-[1,2-ethanediylbis[imino[6-[bis(2-hydroxyethyl)amino]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

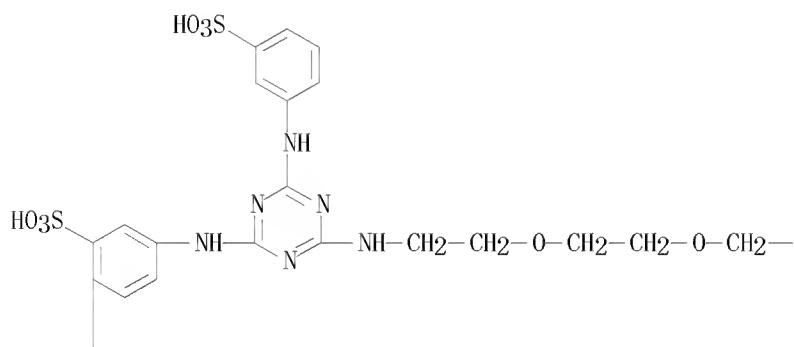


PAGE 1-B

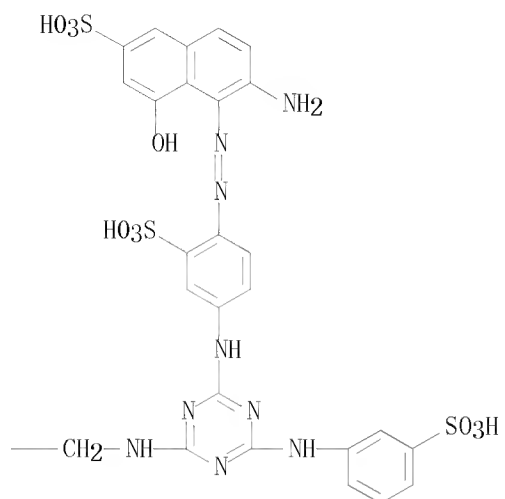


IT 329965-83-5  
 RL: PRP (Properties); TEM (Technical or engineered material use); USES  
 (Uses)  
 (azo dyes for anticlogging storage-stable jet-printing inks)  
 RN 329965-83-5 CAPLUS  
 CN 2-Naphthalenesulfonic acid, 5,5'-[(1-methyl-1,2-ethanediyl)bis[oxy(methyl-  
 2,1-ethanediyl)imino[6-[(3-sulfophenyl)amino]-1,3,5-triazine-4,2-  
 diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-, hexalithium  
 salt (9CI) (CA INDEX NAME)

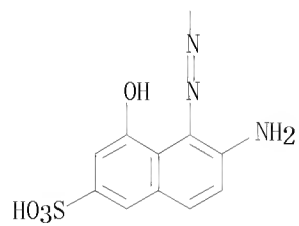
PAGE 1-A



PAGE 1-B



PAGE 2-A



3 ( D1-Me )

●6 Li

L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 1999:665758 CAPLUS  
 DN 131:259012  
 TI Ink-jet printing ink compositions and coating compositions for recording sheets  
 IN Lavery, Aidan Joseph; Watkinson, Janette  
 PA Zeneca Limited, UK; ZSC Specialty Chemicals UK Limited; Avecia Limited  
 SO Brit. UK Pat. Appl., 26 pp.  
 CODEN: BAXXDU  
 DT Patent  
 LA English  
 FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2332438	A	19990623	GB 1998-27475	19981215
	GB 2332438	B	20030319		
	US 6231653	B1	20010515	US 1998-210935	19981215
PRAI	GB 1997-26814	A	19971219		

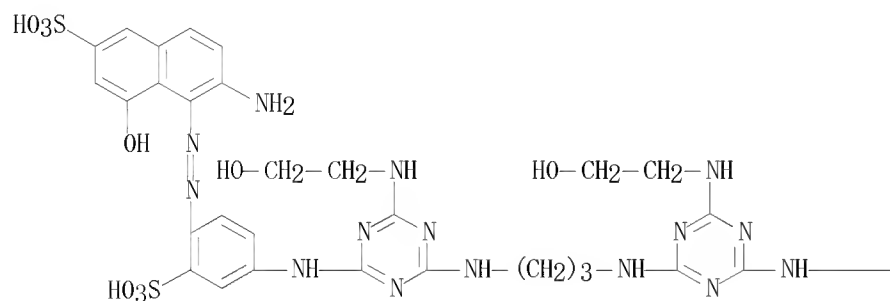
AB The ink with improved light-fastness of prints comprises a dye (e.g., C.I. Direct Blue 199), a sugar (e.g., D-glucose), a compound selected from phosphoric acid and a carboxylic acid or their salts (e.g., ascorbic acid), a solvent (e.g. Butyl Carbitol, and glycerol), and optionally a pH buffer. The recording sheet comprises a substrate coated or impregnated on  $\geq 1$  surface with a coating composition containing a sugar, a compound selected from phosphoric acid and a carboxylic acid or their salts, and optionally a binder.

IT 223595-74-2P 223595-75-3P 223595-76-4P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (dye; ink-jet printing ink compns.)

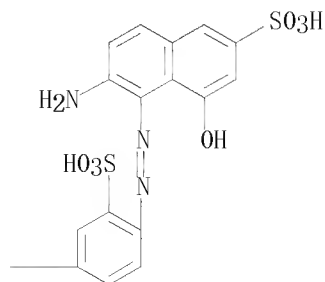
RN 223595-74-2 CAPLUS

CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino[6-[(2-hydroxyethyl)amino]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A

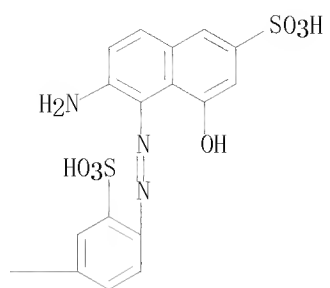


PAGE 1-B



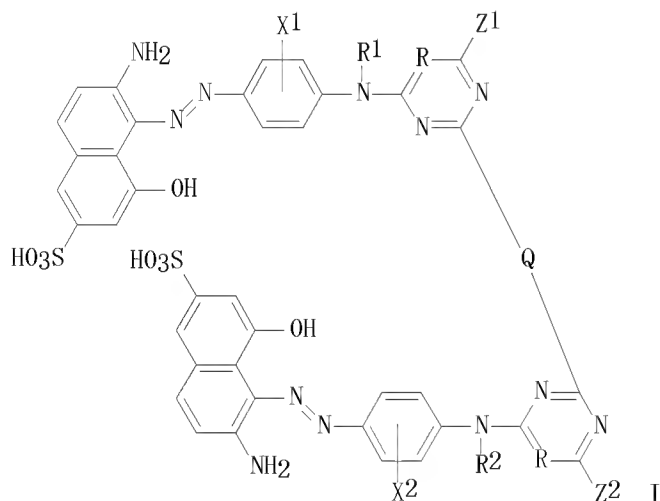


PAGE 1-B



L6 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN  
AN 1999:297470 CAPLUS  
DN 130:313186  
TI Disazo dyes for ink jet printing  
IN Robertson, Colin Dick; Carr, Kathryn; Lavery, Aidan Joseph; Wight, Paul;  
Watkinson, Janette  
PA Zeneca Limited, UK  
SO PCT Int. Appl., 37 pp.  
CODEN: PIXXD2  
DT Patent  
LA English  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9921922	A1	19990506	WO 1998-GB2971	19981002
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9892758	A	19990517	AU 1998-92758	19981002
	GB 2346890	A	20000823	GB 2000-7955	19981002
	GB 2346890	B	20020410		
	US 6482255	B1	20021119	US 2000-529810	20000626
PRAI	GB 1997-22396	A	19971024		
	GB 1997-26812	A	19971219		
	WO 1998-GB2971	W	19981002		
OS	MARPAT 130:313186				
GI					



AB The dyes I (A = N, CCl, CCN, CN02; Q = organic linking group; R1, R2 = H, optionally substituted alkyl; X1, X2 = SO3H, CO2H, CF3, PO3H2, optionally substituted alkoxy or alkyl; Z1, Z2 = halogen, ether, thioether, optionally substituted amino) and salts and their mixts. are obtained for use in ink jet inks. The inks have good application and fastness properties. In an example, 5-acetamido-2-aminobenzenesulfonic acid-2-amino-8-naphthol-6-sulfonic acid was prepared and condensed with cyanuric chloride and then with 1,3-diaminopropane and ethanolamine



to give I (A = N; Q = NHCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>NH; R<sub>1</sub> = R<sub>2</sub> = H; X<sub>1</sub> = X<sub>2</sub> = SO<sub>3</sub>H ortho to azo group; Z<sub>1</sub> = Z<sub>2</sub> = NHCH<sub>2</sub>CH<sub>2</sub>OH). This magenta dye gave prints with good optical d. and light fastness.

IT 223595-77-5P 223595-78-6P 223595-79-7P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(dye mixture; production of disazo dye compns. for jet printing inks)

RN 223595-77-5 CAPLUS

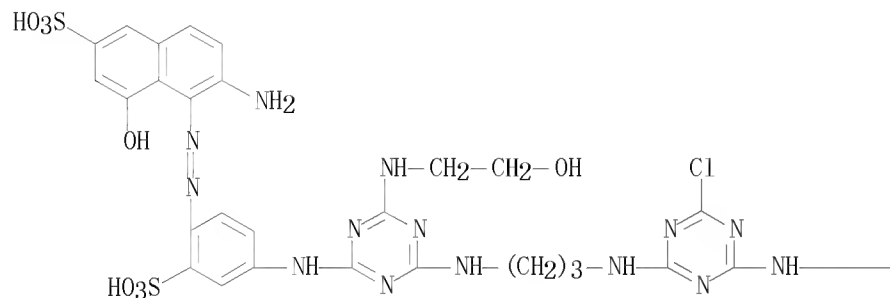
CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-, mixt. with 6-amino-5'-[[4-[[4-[[3-[[4-[[4-[(2-amino-8-hydroxy-6-sulfo-1-naphthalenyl)azo]-3-sulfo-phenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]propyl]amino]-6-[(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-2-sulfo-phenyl]azo]-4-hydroxy-2-naphthalenesulfonic acid and 5,5'-[1,3-propanediylbis[imino[6-[(2-hydroxyethyl)amino]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-2-naphthalenesulfonic acid] (9C1) (CA INDEX NAME)

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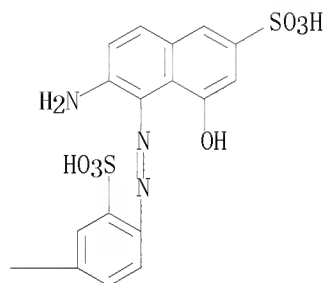
CRN 223595-76-4

CMF C43 H40 Cl N17 O15 S4

PAGE 1-A



PAGE 1-B

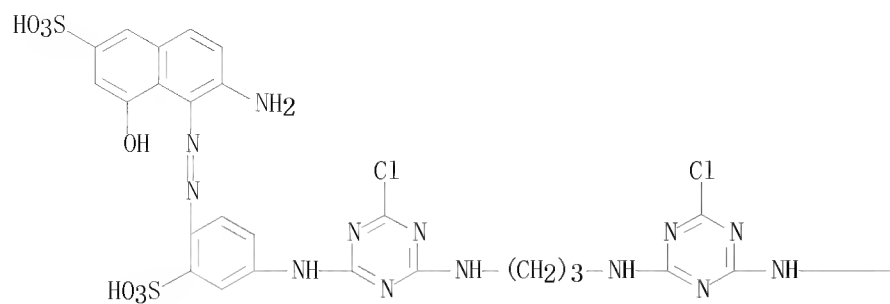


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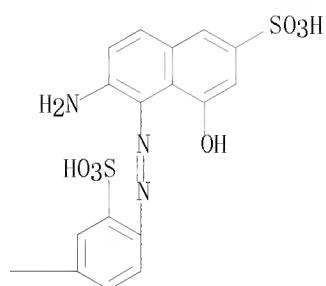
CRN 223595-75-3

CMF C41 H34 Cl2 N16 O14 S4

PAGE 1-A



PAGE 1-B

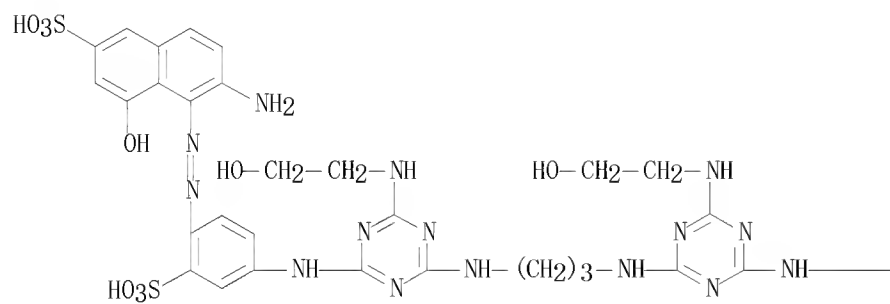


CM 3

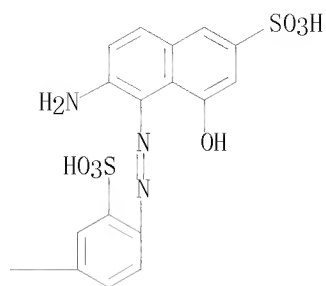
CRN 223595-74-2

CMF C45 H46 N18 O16 S4

PAGE 1-A



PAGE 1-B



RN 223595-78-6 CAPLUS

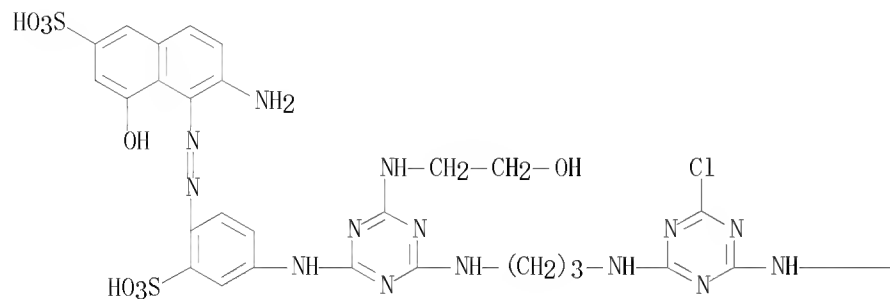
CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino[6-[(2-hydroxyethyl)amino]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-, mixt. with 6-amino-5-[[4-[[4-[[3-[[4-[[4-[(2-amino-8-hydroxy-6-sulfo-1-naphthalenyl)azo]-3-sulfophenyl]amino]-6-chloro-1,3,5-triazin-2-yl]amino]propyl]amino]-6-[(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-2-sulfophenyl]azo]-4-hydroxy-2-naphthalenesulfonic acid (9CI) (CA INDEX NAME)

CM 1

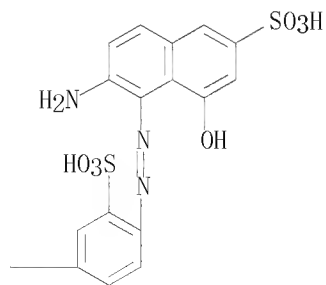
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CMF C43 H40 Cl N17 O15 S4

PAGE 1-A



PAGE 1-B

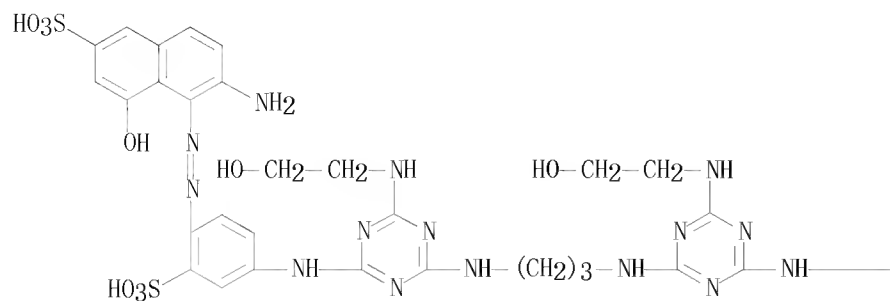


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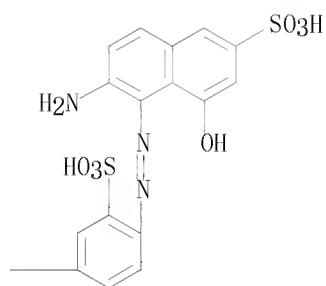
CRN 223595-74-2

CMF C45 H46 N18 O16 S4

PAGE 1-A



PAGE 1-B



RN 223595-79-7 CAPLUS

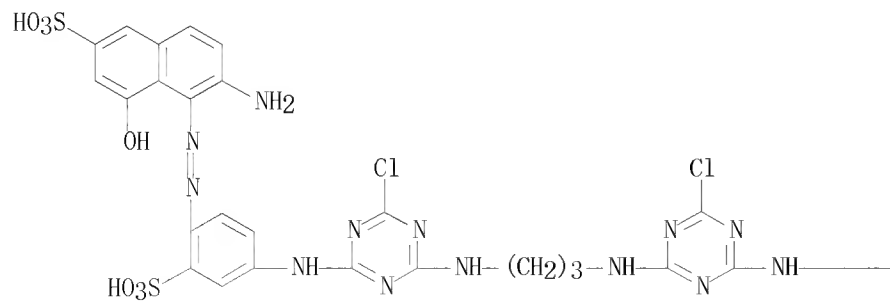
CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino(6-chloro-1,3,5-triazine-4,2-diyli)imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-, mixt. with 5,5'-[1,3-propanediylbis[imino[6-[(2-hydroxyethyl)amino]-1,3,5-triazine-4,2-diyli]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy-2-naphthalenesulfonic acid] (9CI) (CA INDEX NAME)

CM 1

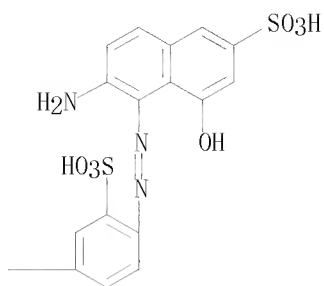
CRN 223595-75-3

CMF C41 H34 Cl2 N16 O14 S4

PAGE 1-A



PAGE 1-B

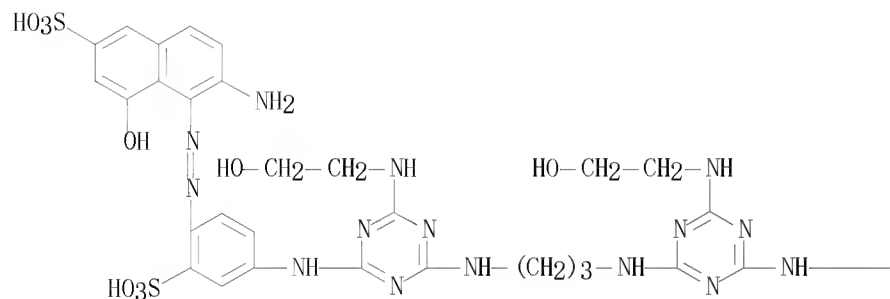


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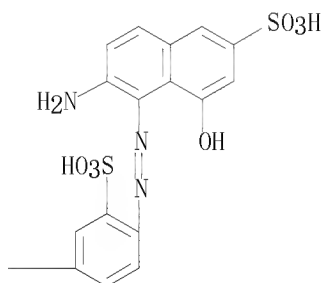
CRN 223595-74-2

CMF C45 H46 N18 O16 S4

PAGE 1-A



PAGE 1-B



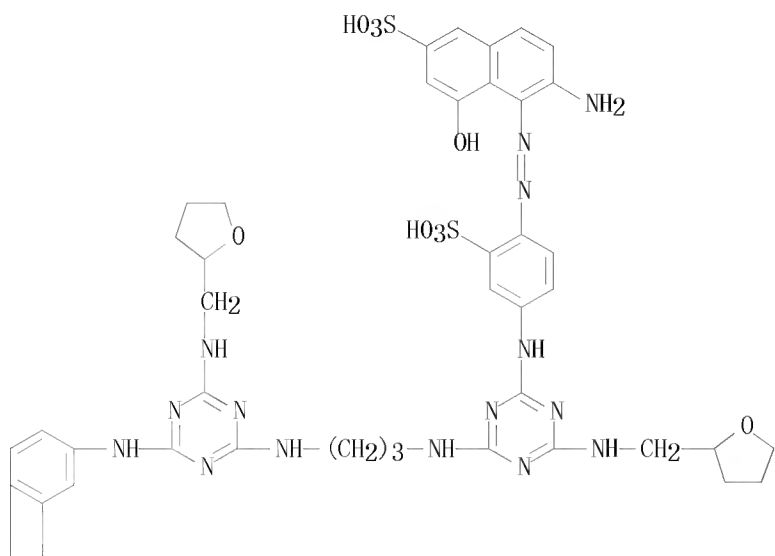
IT 223595-80-0

RL: TEM (Technical or engineered material use); USES (Uses)  
(dye; disazo dyes for jet printing inks)

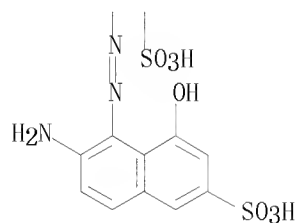
RN 223595-80-0 CAPLUS

CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino[6-[[tetrahydro-  
2-furanyl)methyl]amino]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-  
phenylene)azo]]bis[6-amino-4-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



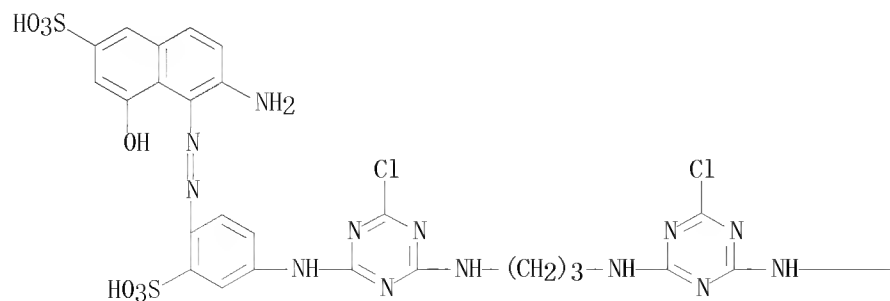
IT 223595-75-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
(dye; production of disazo dyes for jet printing inks)

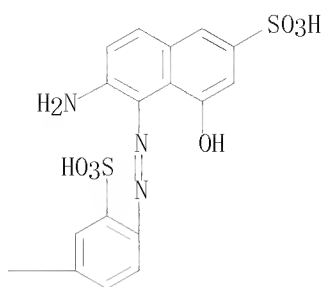
RN 223595-75-3 CAPLUS

CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis(imino(6-chloro-1,3,5-triazine-4,2-diyl)imino(2-sulfo-4,1-phenylene)azo)]bis[6-amino-4-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A

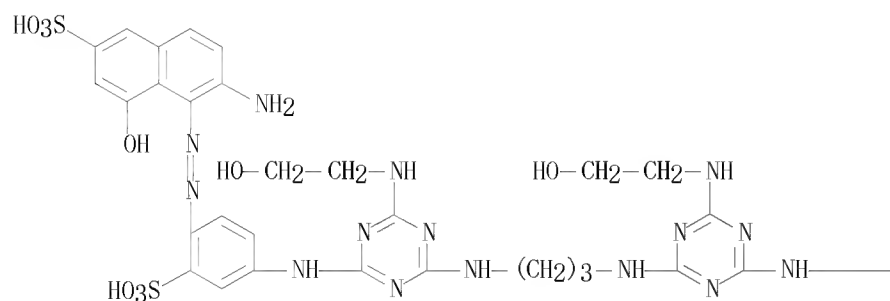


PAGE 1-B

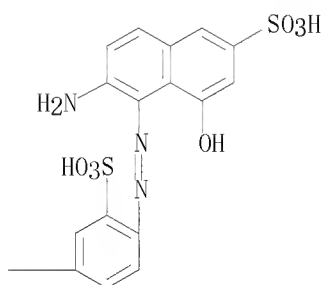


IT 223595-74-2P  
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)  
 (magenta dye; production of disazo dyes for jet printing inks)  
 RN 223595-74-2 CAPLUS  
 CN 2-Naphthalenesulfonic acid, 5,5'-[1,3-propanediylbis[imino[6-[(2-hydroxyethyl)amino]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[6-amino-4-hydroxy- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



RE. CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2009 ACS on STN

AN 1996:171898 CAPLUS

DN 124:204938

OREF 124:37853a,37856a

TI Anionic acid azo direct dyes, their preparation, their mixtures, and their use

IN Lauk, Urs

PA Ciba-Geigy A.-G., Switz.

S0 Eur. Pat. Appl., 71 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 693538	A2	19960124	EP 1995-810387	19950612
	EP 693538	A3	19960605		
	EP 693538	B1	20010822		
	R: BE, CH, DE, ES, FR, GB, GR, IT, LI, PT				
	US 5631352	A	19970520	US 1995-460174	19950602
	ES 2161847	T3	20011216	ES 1995-810387	19950612
	PT 693538	T	20020130	PT 1995-810387	19950612
	JP 08003469	A	19960109	JP 1995-146285	19950613
	JP 3970946	B2	20070905		
	CN 1133323	A	19961016	CN 1995-107363	19950619
	CN 1066178	C	20010523		
	BR 9502861	A	19960604	BR 1995-2861	19950620
	GR 3036651	T3	20011231	GR 2001-401509	20010918
PRAI	CH 1994-1952	A	19940620		

OS MARPAT 124:204938

AB Mixts. of  $\geq 1$  azo dye containing 1 or 2 aminotriazine groups with  $\geq 1$  azo dye containing 2 aminotriazine groups are direct dyes for cellulosics. They are high-temperature-stable and are especially suited for 1-bath dyeing of polyester/cotton with incorporation of a polyester disperse dye under polyester dyeing conditions. Thus, 1 mol cyanuric chloride was condensed with 2 mol 7-amino-4-hydroxy-3-(4-methoxy-2-sulphophenylazo)-2-naphthalenesulfonic acid and then with 1 mol 1,3-diaminopropane to provide an aminotriazine disazo dye which dyed cotton in fast red shades. The dye could also be combined with another azo dye for application.

IT 174571-97-2 174571-99-4

RL: TEM (Technical or engineered material use); USES (Uses)  
(anionic acid azo direct dye mixts. for dyeing of cellulosics)

RN 174571-97-2 CAPLUS

CN 2,7-Naphthalenedisulfonic acid, 4,4',4'',4'''-[1,3-propanediylbis(imino-1,3,5-triazine-6,2,4-triylbis(imino-4,1-phenyleneazo))]tetrakis[3-amino-5-hydroxy-, mixt. with 4,4'-[[6-[(3-aminopropyl)amino]-1,3,5-triazine-2,4-diyl]bis(imino-4,1-phenyleneazo)]bis[3-amino-5-hydroxy-2,7-naphthalenedisulfonic acid] (9CI) (CA INDEX NAME)

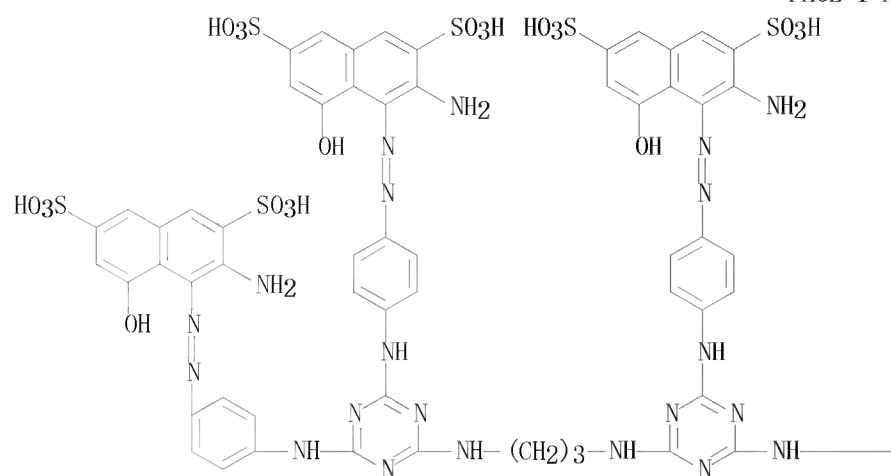
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CRN 174571-96-1

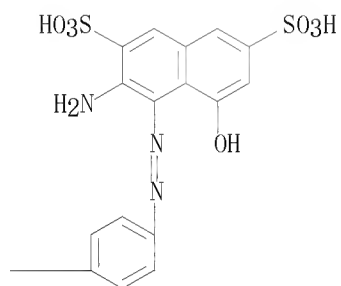
CMF C73 H60 N24 O28 S8



PAGE 1-A



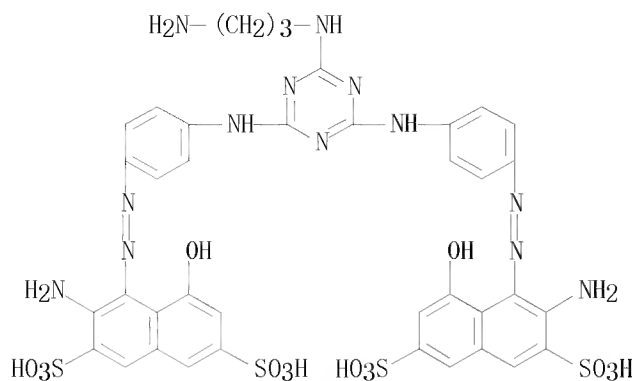
PAGE 1-B



CM 2

CRN 174571-95-0

CMF C38 H35 N13 014 S4



RN 174571-99-4 CAPLUS

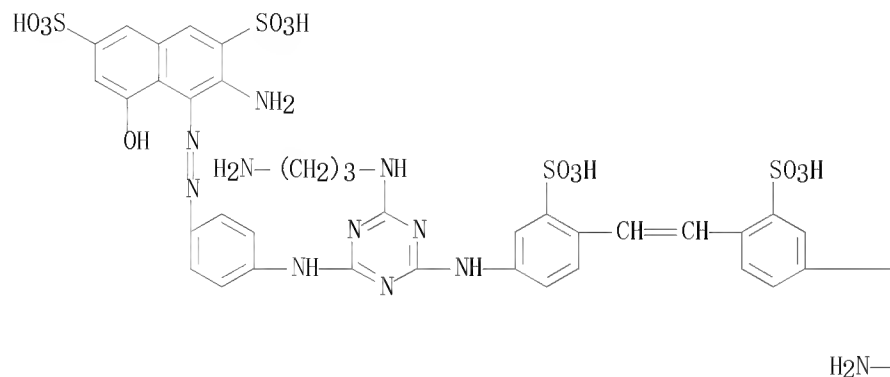
CN 2,7-Naphthalenedisulfonic acid, 4,4',4'',4'''-[1,3-propanediylbis[imino-1,3,5-triazine-6,2,4-triylbis(imino-4,1-phenyleneazo)]]tetrakis[3-amino-5-hydroxy-, mixt. with 4,4'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[(3-aminopropyl)amino]-1,3,5-triazine-4,2-diyl]imino-4,1-phenyleneazo]]bis[3-amino-5-hydroxy-2,7-naphthalenedisulfonic acid] (9CI)  
(CA INDEX NAME)

CM 1

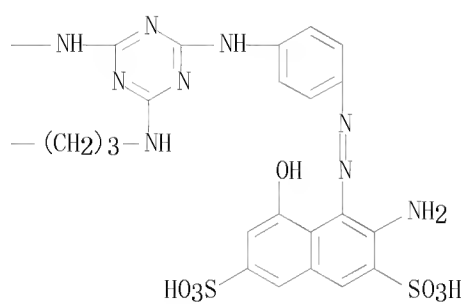
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CMF C58 H56 N20 O20 S6

PAGE 1-A



PAGE 1-B

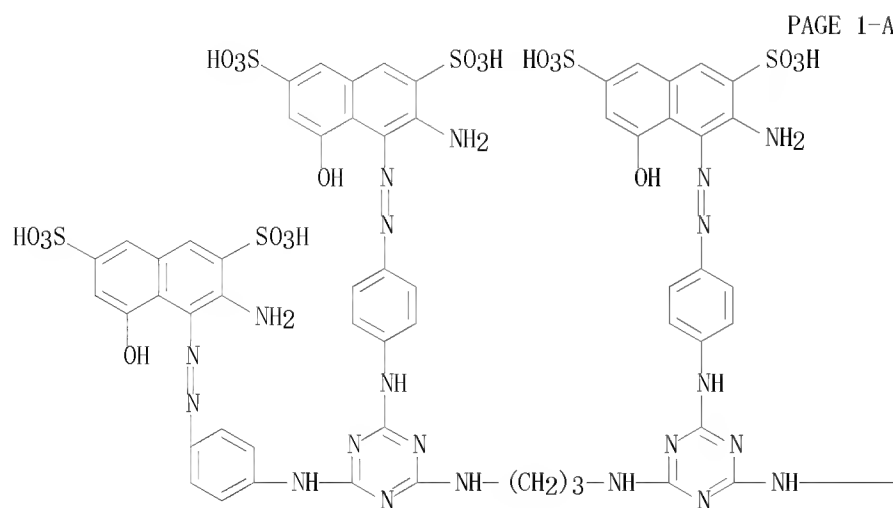


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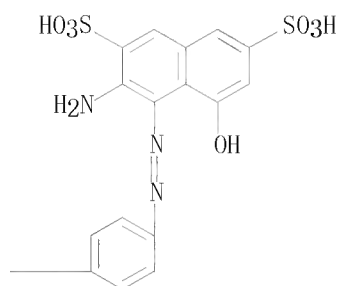
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CMF C73 H60 N24 O28 S8

PAGE 1-A



PAGE 1-B

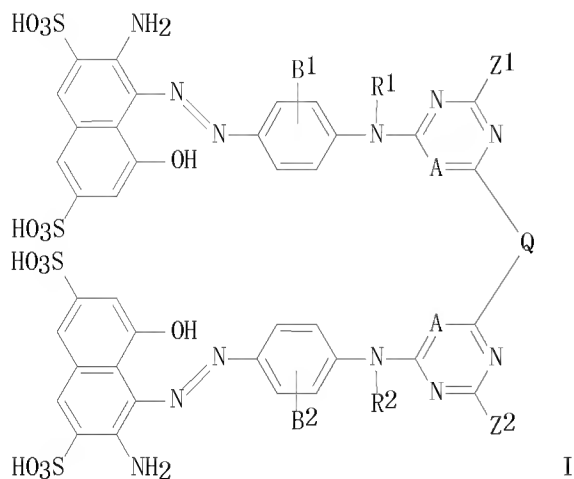


=> s gb2331757/pn  
L7 1 GB2331757/PN

=> d bib abs

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN  
 AN 1999:588885 CAPLUS  
 DN 131:186218  
 TI Bis[[4-(2-amino-8-hydroxy-3,6-disulfo-1-naphthylazo)anilino]pyrimidinyl]  
 or -1,3,5-triazinyl] dyes and their use in ink-jet inks  
 IN Carr, Kathryn  
 PA Zeneca Limited, UK  
 SO Brit. UK Pat. Appl., 28 pp.  
 CODEN: BAXXDU  
 DT Patent  
 LA English  
 FAN. CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 2331757	A	19990602	GB 1998-25225	19981118 <--
	GB 2331757	B	20020925		
PRAI	GB 1997-24975	A	19971127		
OS	MARPAT 131:186218				
GI					



AB Storage-stable, rapid-drying, lightfast, water-resistant dyes have the structure I [each A = N, CC1, CCN, CN02; B1, B2 = (un)substituted alkyl or alkoxy, SO3H, CO2H, CF3, PO3H2; Q = organic group; R1, R2 = H, (un)substituted alkyl; Z1, Z2 = SR3, OR4, NR5R6, labile atom or group; R3-R6 = H, (un)substituted alkyl or aryl or aralkyl, or NR5R6 = 5- or 6-membered heterocyclyl] or its salts. Thus, 4,2-AcNH(HO3S)C6H3NH2 was diazotized and coupled with 3,5-H2N(HO)C10H4(SO3H)2-2,7, the product was deacetylated and condensed 1:1 with cyanuric chloride, and the dichlorotriazine was condensed first with p-phenylenediamine and then with HS(CH2)3SO3H to give a I, a 2% solution of which in 10% aqueous pyrrolidinone applied to glossy paper by ink-jet printing gave a bright magenta print with optical d. 1.67, which decreased by 9% after 64 h exposure in a weatherometer.

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E1 THROUGH E6 ASSIGNED
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DICTIONARY FILE UPDATES: 29 MAY 2009 HIGHEST RN 1150900-38-1
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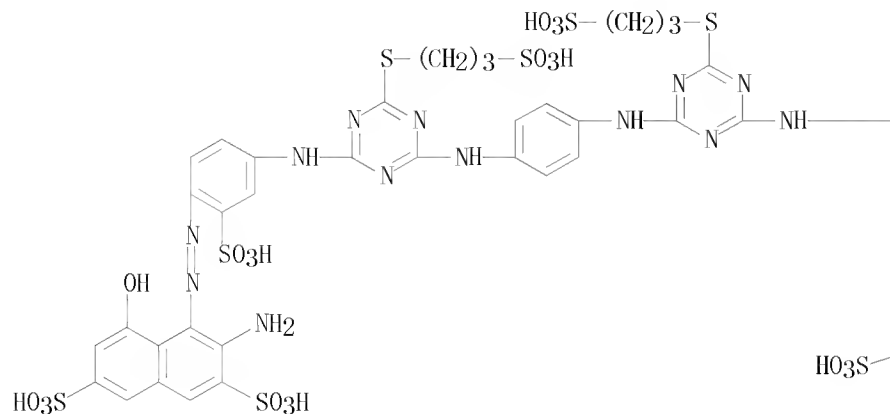
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        (240422-25-7/RN)
      1 49594-30-1/BI
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        (90-40-4/RN)
      1 96-78-6/BI
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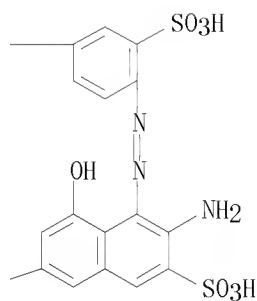
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L8 ANSWER 1 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN  
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 ED Entered STN: 21 Sep 1999  
 CN 2,7-Naphthalenedisulfonic acid, 4,4'-[1,4-phenylenebis[imino[6-[(3-sulfopropyl)thio]-1,3,5-triazine-4,2-diyl]imino(2-sulfo-4,1-phenylene)azo]]bis[3-amino-5-hydroxy- (9CI) (CA INDEX NAME)  
 MF C50 H46 N16 O26 S10  
 SR CA  
 LC STN Files: CA, CAPLUS

PAGE 1-A



PAGE 1-B



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 131:186218



L8 ANSWER 2 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 49594-30-1 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN 1-Propanesulfonic acid, 3-mercapto- (CA INDEX NAME)  
OTHER NAMES:  
CN 3-Mercapto-1-propanesulfonic acid  
CN 3-Mercaptopropylsulfonic acid  
MF C3 H8 O3 S2  
CI COM  
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, CA, CAPLUS, CASREACT,  
CHEMCATS, CHEMLIST, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2,  
USPATFULL, USPATOLD  
(\*File contains numerically searchable property data)  
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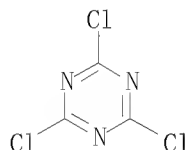
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204 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 150:433811  
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REFERENCE 9: 150:50264  
REFERENCE 10: 149:501837

L8 ANSWER 3 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 108-77-0 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 1,3,5-Triazine, 2,4,6-trichloro- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN s-Triazine, 2,4,6-trichloro- (8CI)  
 OTHER NAMES:  
 CN 1,3,5-Trichloro-2,4,6-triazine  
 CN 1,3,5-Trichlorotriazine  
 CN 2,4,6-Trichloro-1,3,5-triazine  
 CN 2,4,6-Trichloro-s-triazine  
 CN 2,4,6-Trichloro-sym-triazine  
 CN 2,4,6-Trichlorotriazine  
 CN Cyanur chloride  
 CN Cyanuric chloride  
 CN Cyanuric trichloride  
 CN Cyanuryl chloride  
 CN Isocyanuric trichloride  
 CN NSC 3512  
 CN s-Triazine trichloride  
 CN Solgel W 08  
 CN sym-Trichlorotriazine  
 CN Trichloro-s-triazine  
 CN Trichlorocyanidine  
 CN Zorugeru W 08  
 DR 190086-22-7  
 MF C3 C13 N3  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA,  
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 MEDLINE, MSDS-OHS, PIRA, PROMT, PS, RTECS\*, SPECINFO, SYNTHLINE,  
 TOXCENTER, ULIDAT, USPAT2, USPATFULL, USPATOLD  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



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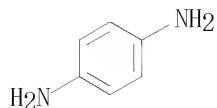
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 REFERENCE 6: 150:496207  
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REFERENCE 9: 150:489687

REFERENCE 10: 150:483652

L8 ANSWER 4 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 106-50-3 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN 1,4-Benzenediamine (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN p-Phenylenediamine (8CI)  
OTHER NAMES:  
CN (4-Aminophenyl)amine  
CN 1,4-Diaminobenzene  
CN 1,4-Diaminobenzol  
CN 1,4-Phenylenediamine  
CN 4-Aminoaniline  
CN BASF Ursol D  
CN Benzofur D  
CN Black for Fur D  
CN C.I. 76060  
CN C.I. Developer 13  
CN C.I. Oxidation Base 10  
CN Developer PF  
CN Durafur Black R  
CN Fouramine D  
CN Fournine 1  
CN Fournine D  
CN Fur Black 41867  
CN Fur Brown 41866  
CN Fur Yellow  
CN Furro D  
CN Futramine D  
CN Nako H  
CN NSC 4777  
CN Orsin  
CN p-Aminoaniline  
CN p-Benzenediamine  
CN p-Diaminobenzene  
CN Pelagol D  
CN Pelagol DR  
CN Pelagol Grey D  
CN Peltol D  
CN PPD  
CN Renal PF  
CN Rodol D  
CN Rodol DJ  
CN Tertral D  
CN Ursol D  
CN Zoba Black D  
DR 56481-76-6  
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CI COM  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS,  
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CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DRUGU, EMBASE, GMELIN\*,  
HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, PIRA,  
PROMT, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2,  
USPATFULL, USPATOLD  
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Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

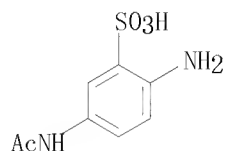


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9589 REFERENCES IN FILE CAPLUS (1907 TO DATE)

REFERENCE 1: 150:502396  
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REFERENCE 3: 150:500558  
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REFERENCE 5: 150:496302  
REFERENCE 6: 150:495923  
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REFERENCE 9: 150:495594  
REFERENCE 10: 150:495588

L8 ANSWER 5 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN  
 RN 96-78-6 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Benzenesulfonic acid, 5-(acetylamino)-2-amino- (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Benzenesulfonic acid, 5-acetamido-2-amino- (7CI, 8CI)  
 OTHER NAMES:  
 CN 2-Amino-5-(acetylamino)benzenesulfonic acid  
 CN 4-(Acetylamino)aniline-2-sulfonic acid  
 CN 4-Acetamido-2-sulfoaniline  
 CN 4-Amino-3-sulfoacetanilide  
 CN 4-Aminoacetanilide-3-sulfonic acid  
 CN 5-Acetamido-2-aminobenzenesulfonic acid  
 CN 5-Acetamidoorthanilic acid  
 CN 5-Acetylamino-2-aminobenzene-1-sulfonic acid  
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 CN NSC 36988  
 MF C8 H10 N2 O4 S  
 CI COM  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM,  
 IFICDB, IFIPAT, IFIUDB, SPECINFO, TOXCENTER, USPAT2, USPATFULL  
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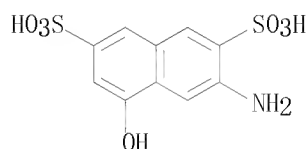


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 REFERENCE 3: 147:428853  
 REFERENCE 4: 146:381968  
 REFERENCE 5: 144:494624  
 REFERENCE 6: 144:313695  
 REFERENCE 7: 143:388711  
 REFERENCE 8: 143:388584  
 REFERENCE 9: 143:287906  
 REFERENCE 10: 143:28079

L8 ANSWER 6 OF 6 REGISTRY COPYRIGHT 2009 ACS on STN  
RN 90-40-4 REGISTRY  
ED Entered STN: 16 Nov 1984  
CN 2,7-Naphthalenedisulfonic acid, 3-amino-5-hydroxy- (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 1-Naphthol-3,6-disulfonic acid, 7-amino- (6CI)  
OTHER NAMES:  
CN 1-Hydroxy-3,6-disulfo-7-aminonaphthalene  
CN 2-Amino-8-hydroxynaphthalene-3,6-disulfonic acid  
CN 2-Amino-8-naphthol-3,6-disulfonic acid  
CN 2R acid  
CN 3-Amino-5-hydroxy-2,7-naphthalenedisulfonic acid  
CN 6-Amino-4-naphthol-2,7-disulfonic acid  
CN 7-Amino-1-hydroxy-3,6-naphthalenedisulfonic acid  
CN 7-Amino-1-naphthol-3,6-disulfonic acid  
CN Gamma disulfo acid  
CN NSC 10435  
CN NSC 7560  
CN RR acid  
MF C10 H9 N O7 S2  
CI COM  
LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST, CSCHEM,  
IFICDB, IFIPAT, IFIUDB, SPECINFO, TOXCENTER, USPAT2, USPATFULL, USPATOLD  
(\*File contains numerically searchable property data)  
Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*  
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139 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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L1 STRUCTURE UPLOADED

D

L2 2 SEA SSS SAM L1

D SCAN

L3 26 SEA SSS FUL L1

L4 23 SEA ABB=ON PLU=ON L3 AND CAPLUS/LC

L5 3 SEA ABB=ON PLU=ON L3 NOT L4

D 1-3 IDE CAN

FILE 'CAPLUS' ENTERED AT 18:01:30 ON 30 MAY 2009

L6 6 SEA ABB=ON PLU=ON L3

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L7 1 SEA ABB=ON PLU=ON GB2331757/PN

D BIB ABS

SEL L7 1 RN

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BI OR 49594-30-1/BI OR 90-40-4/BI OR 96-78-6/BI)

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FILE HOME

FILE REGISTRY

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DICTIONARY FILE UPDATES: 29 MAY 2009 HIGHEST RN 1150900-38-1

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FILE LAST UPDATED: 29 May 2009 (20090529/ED)

REVISED CLASS FIELDS (/NCL) LAST RELOADED: Feb 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Feb 2009



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TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

14.46

257.18

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

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